

Content Re-Engineering Tool API Document

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Class Messages

```
java.lang.Object
|
+--uk.ac.reload.dweezil.Messages
```

< [Methods](#) >

```
public class Messages
extends java.lang.Object
```

Messages Resource Bundle Handler

Author:

Phillip Beauvoir

Version:

\$Id: Messages.java,v 1.1 2004/07/09 12:35:02 phillipus Exp \$

Methods

getString

```
public static java.lang.String getString(java.lang.String key)
```

Parameters:

key - The Key

Returns:

A Message String

Class Messages

```
java.lang.Object
|
+--uk.ac.reload.editor.Messages
```

< [Methods](#) >

```
public class Messages
extends java.lang.Object
```

Messages Resource Bundle Handler

Author:

Phillip Beauvoir

Version:

\$Id: Messages.java,v 1.1 2004/07/07 17:43:44 phillipus Exp \$

Methods

getString

```
public static java.lang.String getString(java.lang.String key)
```

Parameters:

key - The Key

Returns:

A Message String

Class Messages

```
java.lang.Object  
|  
+--uk.ac.reload.moonunit.Messages
```

< [Methods](#) >

```
public class Messages  
extends java.lang.Object
```

Messages Resource Bundle Handler

Author:

Phillip Beauvoir

Version:

\$Id: Messages.java,v 1.1 2004/07/09 12:35:14 phillipus Exp \$

Methods

getString

```
public static java.lang.String getString(java.lang.String key)
```

Parameters:

key - The Key

Returns:

A Message String

Package uk.ac.reload.editor.ctt.gui

Class Summary

[CTDialog](#)

This is for presenting the dialog screens for import As and export As content packages from one version to version another using XSLT

[CTFileOpenDialog](#)

For selecting the source and target schema names for doing transform

[SourceTargetDialog](#)

Dialogs for selecting the source and target schema label in performing xslt import As and export As function

uk.ac.reload.editor.ctt.gui

Class CTDialog

```
java.lang.Object
|
+--uk.ac.reload.editor.ctt.gui.CTDialog
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class CTDialog
extends java.lang.Object
```

This is for presenting the dialog screens for import As and export As content packages from one version to version another using XSLT

Fields

SCHEMAROOTFOLDER

```
public static java.io.File SCHEMAROOTFOLDER
    XSLT root Folder
```

XFORM_FOLDER

```
public static final java.io.File XFORM_FOLDER
```

Constructors

CTDialog

```
public CTDialog()
```

Methods

copyCP

```
public static void  
copyCP(uk.ac.reload.editor.contentpackaging.xml.ContentPackage cp,  
        java.io.File tFolder)
```

Copy a content package with associated resources to new folder

Parameters:

cp -
tFolder -

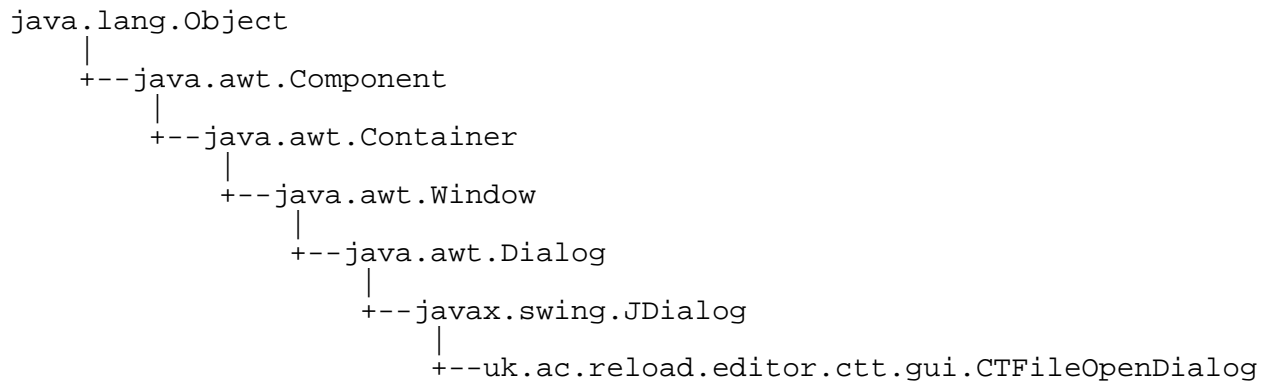
ctExport

```
public static void  
ctExport(uk.ac.reload.editor.contentpackaging.editor.CP_Editor cpEditor)
```

ctImport

```
public uk.ac.reload.editor.EditorInternalFrame ctImport()
```

Class CTFileOpenDialog



All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public class CTFileOpenDialog
extends javax.swing.JDialog
```

For selecting the source and target schema names for doing transform

Constructors

CTFileOpenDialog

```
public CTFileOpenDialog(java.lang.String sName,
                        java.lang.String tName,
                        java.lang.String manifest,
                        javax.swing.JFrame parent)
throws java.awt.HeadlessException
```

c'str

Parameters:

sName -
tName -
manifest -
parent -

Throws:

java.awt.HeadlessException -

CTFileOpenDialog

```
public CTFileOpenDialog(java.lang.String sName,  
                        java.lang.String tName,  
                        javax.swing.JFrame parent)  
    throws java.awt.HeadlessException
```

c'str

Parameters:

sName -
tName -
parent -

Throws:

java.awt.HeadlessException -

Methods

getSourceFile

```
public java.io.File getSourceFile()
```

Returns:

Returns the sourceFile.

getSourceFileChooser

```
public uk.ac.reload.dweezil.gui.DweezilFileChooser getSourceFileChooser()
```

Returns:

The DweezilFileChooser

getTargetFile

```
public java.io.File getTargetFile()
```

Returns:

Returns the targetFile.

getTargetFolderChooser

```
public uk.ac.reload.dweezil.gui.DweezilFolderChooser getTargetFolderChooser()
```

Returns:

The DweezilFolderChooser

showDialog

```
public void showDialog()
```

uk.ac.reload.editor.ctt.gui

Class SourceTargetDialog

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- uk.ac.reload.editor.ctt.gui.SourceTargetDialog
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public class SourceTargetDialog
extends javax.swing.JDialog
```

Dialogs for selecting the source and target schema label in performing xslt import As and export As function

Constructors

SourceTargetDialog

```
public SourceTargetDialog(java.io.File xformDir,  
                           javax.swing.JFrame parent,  
                           java.lang.String ver)  
    throws org.jdom.JDOMException,  
           java.io.IOException,  
           java.io.FileNotFoundException
```

c'str

Parameters:

xformDir -
parent -
ver -

Throws:

org.jdom.JDOMException -
java.io.IOException -
java.io.FileNotFoundException -

Methods

filterTargetSchemaList

```
public void filterTargetSchemaList(java.io.File xformDir,  
                                   java.lang.String schemaVer)  
    throws org.jdom.JDOMException,  
           java.io.IOException,  
           java.io.FileNotFoundException
```

List a filtered list of target schemas for a given source schema based on available xslt's

Parameters:

xformDir -
schemaVer -

Throws:

org.jdom.JDOMException -
java.io.IOException -
java.io.FileNotFoundException -

getCtDoc

```
public org.jdom.Document getCtDoc()
```

Returns:

Returns the ctDoc.

getSchemaSName

```
public java.lang.String getSchemaSName()
```

Returns:

Returns the schemaSName.

getSchemaTName

```
public java.lang.String getSchemaTName()
```

Returns:

Returns the schemaTName.

getSl

```
public ScriptLoader getSl()
```

Returns:

Returns the sl.

setSchemaDir

```
public void setSchemaDir(java.io.File xformDir)  
    throws org.jdom.JDOMException,  
           java.io.IOException,  
           java.io.FileNotFoundException
```

Set the transformer directory and load xslt files

Parameters:

xformDir -

Throws:

org.jdom.JDOMException -
java.io.IOException -
java.io.FileNotFoundException -

showDialog

```
public java.lang.String showDialog()
```

Show the dialog

Returns:

The user response either OK_OPTION or CANCEL_OPTION

updateTargetSchemaList

```
public void updateTargetSchemaList(java.lang.String sSchemaLbl)
```

update the target schema list based on selection on the source schema list

Parameters:

sSchemaLbl -

Package uk.ac.reload.editor.ctt.helper

Class Summary

[ListFiles](#)

Class for loading xml files recursively from a root directory - used in loading iotransform.xml files from transform directory

uk.ac.reload.editor.ctt.helper

Class ListFiles

```
java.lang.Object
|
|--uk.ac.reload.editor.ctt.helper.ListFiles
```

< [Constructors](#) > < [Methods](#) >

```
public class ListFiles
extends java.lang.Object
```

Class for loading xml files recursively from a root directory - used in loading iotransform.xml files from transform directory

Constructors

ListFiles

```
public ListFiles(java.lang.String suffix)
```

Methods

getFileListing

```
public java.util.List getFileListing(java.io.File aStartingDir)
```

Recursively walk a directory tree and return a List of all Files found; the List is sorted using File.compareTo.

Parameters:

aStartingDir - is a valid directory, which can be read.

getFileListing

```
public java.util.List getFileListing(java.lang.String startingDir)  
    throws java.io.FileNotFoundException
```

creates a list of files by recursing into subdirectories

Parameters:

startingDir -

Returns:

list of files

Throws:

java.io.FileNotFoundException -

Package uk.ac.reload.editor.ctt.xformer

Class Summary

[CTransformer](#)

Performs xslt on jdom document - xalan is used for xslt

[ScriptLoader](#)

This class loads the iotransform.xml file and collate contained information onto a jdom document

uk.ac.reload.editor.ctt.xformer

Class CTransformer

```
java.lang.Object
|
+--uk.ac.reload.editor.ctt.xformer.CTransformer
```

< [Constructors](#) > < [Methods](#) >

```
public class CTransformer
extends java.lang.Object
```

Performs xslt on jdom document - xalan is used for xslt

Constructors

CTransformer

```
public CTransformer()
```

Methods

setTFactory

```
public void setTFactory(java.lang.String factory)
```

sets the xsl transformer factory

Parameters:

factory -

transform

```
public org.jdom.Document transform(java.io.File in,  
                                     java.io.File xsl)  
                                     throws  
javax.xml.transform.TransformerConfigurationException,  
                                     javax.xml.transform.TransformerException,  
                                     org.jdom.JDOMException,  
                                     java.io.IOException
```

xsl transform xml file using xslt

Parameters:

in -
xsl -

Returns:

resultant jdom document

Throws:

javax.xml.transform.TransformerConfigurationException -
javax.xml.transform.TransformerException -
org.jdom.JDOMException -
java.io.IOException -

transform

```
public org.jdom.Document transform(java.lang.String inputFile,  
                                     java.lang.String xslFile)  
                                     throws org.jdom.JDOMException,  
                                     java.io.IOException
```

XSL transform an xml document

Parameters:

inputFile - path to xml document
xslFile - path to xsl file

Returns:

resultant jdom document

Throws:

org.jdom.JDOMException -
java.io.IOException -

transform

```
public org.jdom.Document transform(org.jdom.Document sourceDoc,  
                                     java.io.File stylesheetFile)  
                                     throws  
javax.xml.transform.TransformerConfigurationException,  
                                     javax.xml.transform.TransformerException,  
                                     org.jdom.JDOMException,  
                                     java.io.IOException
```

This function transform a jdom document using xslt

Parameters:

sourceDoc - jdom document to be transformed
stylesheetFile - xsl file

Returns:

transformed jdom document

Throws:

javax.xml.transform.TransformerConfigurationException -
javax.xml.transform.TransformerException -
org.jdom.JDOMException -
java.io.IOException -

uk.ac.reload.editor.ctt.xformer

Class ScriptLoader

```
java.lang.Object  
|  
+--uk.ac.reload.editor.ctt.xformer.ScriptLoader
```

< [Constructors](#) > < [Methods](#) >

```
public class ScriptLoader  
extends java.lang.Object
```

This class loads the iotransform.xml file and collate contained information onto a jdom document

Constructors

ScriptLoader

```
public ScriptLoader(java.io.File rootDir)
    throws java.io.FileNotFoundException,
           org.jdom.JDOMException,
           java.io.IOException
```

c'str

Parameters:

rootDir -

Throws:

java.io.FileNotFoundException -
org.jdom.JDOMException -
java.io.IOException -

ScriptLoader

```
public ScriptLoader(java.lang.String rootDir)
    throws java.io.FileNotFoundException,
           org.jdom.JDOMException,
           java.io.IOException
```

c'str

Parameters:

rootDir -

Throws:

java.io.FileNotFoundException -
org.jdom.JDOMException -
java.io.IOException -

Methods

getCtXRef

```
public org.jdom.Document getCtXRef()
```

Returns:

jdom document containing schema version and xslt file table

getIoList

```
public java.util.List getIoList()
```

Returns:

the list of configuration files in the transform directories

getXSLT

```
public java.lang.String getXSLT(java.lang.String sourceSchema,  
                                  java.lang.String targetSchema)
```

Return the xslt file location for doing xslt from given source to target

Parameters:

sourceSchema -
targetSchema -

Returns:

xslt file location

setCtXRef

```
public void setCtXRef()  
    throws org.jdom.JDOMException,  
           java.io.IOException
```

create a jdom document containing cross reference of source/target schema and the associated xslt file location

Throws:

org.jdom.JDOMException -
java.io.IOException -

setIoList

```
public void setIoList(java.util.List list)
```

Parameters:

list -

Package uk.ac.reload.editor.gencontent

Class Summary

[GenContentEditorHandler](#)

Content editor handler for editing localised content packages

uk.ac.reload.editor.gencontent

Class GenContentEditorHandler

```
java.lang.Object
|
|--uk.ac.reload.editor.contentpackaging.CP_EditorHandler
|   |
|   |--uk.ac.reload.editor.gencontent.GenContentEditorHandler
```

All Implemented Interfaces:

uk.ac.reload.editor.IEditorHandler, uk.ac.reload.editor.IIcons

< [Constructors](#) > < [Methods](#) >

```
public class GenContentEditorHandler
extends uk.ac.reload.editor.contentpackaging.CP_EditorHandler
```

Content editor handler for editing localised content packages

Constructors

GenContentEditorHandler

```
public GenContentEditorHandler()
```

Methods

canCreateDocuments

```
public boolean canCreateDocuments()
```

Overrides:

canCreateDocuments in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

canEditFile

```
public boolean canEditFile(java.io.File file)
```

Overrides:

canEditFile in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

checkFolder

```
public boolean checkFolder(java.io.File file)
```

Check a folder for 'config.xml' that contain the package details

Parameters:

file -

Returns:

editFile

```
public uk.ac.reload.editor.EditorInternalFrame editFile(java.io.File file)
```

Overrides:

editFile in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

getDefaultMDVersion

```
public java.lang.String getDefaultMDVersion()
```

Overrides:

getDefaultMDVersion in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

getDefaultVersion

```
public java.lang.String getDefaultVersion()
```

Overrides:

getDefaultVersion in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

getEditorFrame

```
public uk.ac.reload.editor.EditorInternalFrame getEditorFrame(java.io.File file)
```

Creates a editor frame for localised content manifest folder should contain config.xml with type of content, and schema details

Parameters:

file -

Returns:

EditorInternalFrames

getName

```
public java.lang.String getName()
```

Overrides:

getName in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

getSupportedVersions

```
public java.lang.String[] getSupportedVersions()
```

Overrides:

getSupportedVersions in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

getVersion

```
public java.lang.String getVersion(org.jdom.Namespace ns)
```

Overrides:

getVersion in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

newDocument

```
public uk.ac.reload.editor.EditorInternalFrame newDocument()
```

Create a new document using localised schema and new editor frame for editing

Overrides:

newDocument in class uk.ac.reload.editor.contentpackaging.CP_EditorHandler

Package

uk.ac.reload.editor.gencontent.editor

Class Summary

[GenCPEditor](#)

The Content Package Editor Frame - extended to work with modified ims cp schema

[NewCPDialog](#)

For selecting the source and target schema names for doing transform

uk.ac.reload.editor.gencontent.editor

Class GenCPEditor

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JInternalFrame
|               |
|               +-- uk.ac.reload.dweezil.gui.DweezilInternalFrame
|                   |
|                   +-- uk.ac.reload.editor.EditorInternalFrame
|                       |
|                       +-- uk.ac.reload.editor.contentpackaging.editor.CP_Editor
|                           |
|                           +-- uk.ac.reload.editor.gencontent.editor.GenCPEditor
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants,
uk.ac.reload.editor.ApplicationListener, uk.ac.reload.editor.Ilcons,
uk.ac.reload.jdom.XMLDocumentListener

< [Constructors](#) > < [Methods](#) >

```
public class GenCPEditor
extends uk.ac.reload.editor.contentpackaging.editor.CP_Editor
```

The Content Package Editor Frame - extended to work with modified ims cp schema

Constructors

GenCPEditor

```
public GenCPEditor()
```

Default Constructor

GenCPEditor

```
public GenCPEditor(uk.ac.reload.editor.contentpackaging.xml.ContentPackage cp)
```

Constructor

Parameters:

cp - The ContentPackage

Methods

show

```
public void show()
```

Over-ride this so we can set view stuff

Overrides:

show in class uk.ac.reload.editor.contentpackaging.editor.CP_Editor

uk.ac.reload.editor.gencontent.editor

Class NewCPDialog

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- uk.ac.reload.editor.gencontent.editor.NewCPDialog
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public class NewCPDialog
extends javax.swing.JDialog
```

For selecting the source and target schema names for doing transform

Constructors

NewCPDialog

```
public NewCPDialog(javax.swing.JFrame parent)
    throws java.awt.HeadlessException
```

Throws:

java.awt.HeadlessException -

Methods

getSourceFile

```
public java.io.File getSourceFile()
```

Returns:

Returns the sourceFile.

getSourceFolderChooser

```
public uk.ac.reload.dweezil.gui.DweezilFileChooser getSourceFolderChooser()
```

Returns:

The DweezilFileChooser

getTargetFile

```
public java.io.File getTargetFile()
```

Returns:

Returns the targetFile.

getTargetFolderChooser

```
public uk.ac.reload.dweezil.gui.DweezilFolderChooser getTargetFolderChooser()
```

Returns:

The DweezilFolderChooser

showDialog

```
public void showDialog()
```

Package uk.ac.reload.editor.gencontent.xml

Class Summary

[GenCPSchemaController](#)

Schema Controller for modified(localised) IMS content package schema

[GenContentPackage](#)

Content package extended to handle ims cp localised content

[GenMDSchemaController](#)

TO DO Schema Controller for modified(localised) IMS Metadata schema

uk.ac.reload.editor.gencontent.xml

Class GenCPSchemaController

```
java.lang.Object
|
|--uk.ac.reload.moonunit.SchemaController
|   |
|   |--uk.ac.reload.moonunit.ProfiledSchemaController
|       |
|       |--uk.ac.reload.editor.contentpackaging.xml.CP_SchemaController
|           |
|           |--uk.ac.reload.editor.gencontent.xml.GenCPSchemaController
```

All Implemented Interfaces:

uk.ac.reload.editor.IIcons, uk.ac.reload.editor.gui.TreeIconInterface

< [Constructors](#) > < [Methods](#) >

```
public class GenCPSchemaController
extends uk.ac.reload.editor.contentpackaging.xml.CP_SchemaController
```

Schema Controller for modified(localised) IMS content package schema

Constructors

GenCPSchemaController

```
public GenCPSchemaController(java.io.File file)
throws org.jdom.JDOMException,
       SchemaException,
       java.io.IOException
```

Throws:

org.jdom.JDOMException -
uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

GenCPSchemaController

```
public GenCPSchemaController(java.lang.String schemaPath)
    throws org.jdom.JDOMException,
           SchemaException,
           java.io.IOException
```

Throws:

org.jdom.JDOMException -
uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

Methods

copySchemaFilesToFolder

```
public void copySchemaFilesToFolder(java.io.File projectFolder)
```

Copy the Schema Files to the Project Folder

Overrides:

copySchemaFilesToFolder in class
uk.ac.reload.editor.contentpackaging.xml.CP_SchemaController

getDefaultMD_SchemaController

```
public uk.ac.reload.editor.metadata.xml.MD_SchemaController
getDefaultMD_SchemaController()
```

Overrides:

getDefaultMD_SchemaController in class
uk.ac.reload.editor.contentpackaging.xml.CP_SchemaController

getMdSchemaFile

```
public static java.io.File getMdSchemaFile()
```

Returns:

Returns the mdSchemaFile.

getSchemaFile

```
public java.io.File getSchemaFile()
```

Overrides:

getSchemaFile in class uk.ac.reload.moonunit.SchemaController

getVersion

```
public java.lang.String getVersion()
```

Overrides:

getVersion in class uk.ac.reload.moonunit.SchemaController

loadSchemaModel

```
public void loadSchemaModel(java.lang.String root)  
    throws SchemaException,  
           java.io.IOException
```

Load in the SchemaModel as determined by getSchemaFile() and getRootElementName(). If the SchemaModel has already been set and loaded, nothing happens.

Throws:

uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

setMD_SchemaController

```
public void setMD_SchemaController(GenMDSchemaController mdController)
```

Set the MD_SchemaController

Parameters:

mdController -

setSchemaFile

```
public static void setSchemaFile(java.io.File file)
```

Parameters:

file -

setSchemaFile

```
public static void setSchemaFile(java.lang.String path)
```

Set the schema file - loads the configuration file at the spec location extracts the schema file name from config file

Parameters:

path -

uk.ac.reload.editor.gencontent.xml

Class GenContentPackage

```
java.lang.Object
|
|--uk.ac.reload.jdom.XMLDocument
|   |
|   |--uk.ac.reload.jdom.XMLActiveDocument
|       |
|       |--uk.ac.reload.moonunit.SchemaDocument
|           |
|           |--uk.ac.reload.editor.contentpackaging.xml.ContentPackage
|               |
|               |--uk.ac.reload.editor.gencontent.xml.GenContentPackage
```

< [Constructors](#) > < [Methods](#) >

```
public class GenContentPackage
extends uk.ac.reload.editor.contentpackaging.xml.ContentPackage
```

Content package extended to handle ims cp localised content

Constructors

GenContentPackage

```
public GenContentPackage()
```

GenContentPackage

```
public GenContentPackage(java.io.File file,  
                        org.jdom.Document manifest,  
                        GenCPSchemaController cpController)  
    throws org.jdom.JDOMException,  
           SchemaException,  
           java.io.IOException
```

Constructor for existing document

Parameters:

file -

Throws:

org.jdom.JDOMException -
uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

GenContentPackage

```
public GenContentPackage(java.io.File projectFolder,  
                        uk.ac.reload.editor.contentpackaging.xml.CP_SchemaController cpController,  
                        uk.ac.reload.editor.metadata.xml.MD_SchemaController  
                        mdController)  
    throws java.io.IOException
```

Constructor for blank document

Parameters:

projectFolder -
cpController -
mdController -

Throws:

java.io.IOException -

Methods

addElementBySchema

```
public org.jdom.Element addElementBySchema(java.lang.Object source,  
                                             org.jdom.Element parentElement,  
                                             SchemaElement newSchemaElement,  
                                             boolean doSelect)
```

add a child element to parent element according to schema set the default attributes to new element if any

Parameters:

source - source of this request
parentElement - element to which new child element is added
newSchemaElement - schema element for the child element
doSelect - select/not select the newly created element in view

Overrides:

addElementBySchema in class uk.ac.reload.editor.contentpackaging.xml.ContentPackage

uk.ac.reload.editor.gencontent.xml

Class GenMDSchemaController

```
java.lang.Object  
|  
|--uk.ac.reload.moonunit.SchemaController  
|   |--uk.ac.reload.moonunit.ProfiledSchemaController  
|       |--uk.ac.reload.editor.metadata.xml.MD_SchemaController  
|           |--uk.ac.reload.editor.gencontent.xml.GenMDSchemaController
```

All Implemented Interfaces:

uk.ac.reload.editor.IIcons, uk.ac.reload.editor.gui.TreeIconInterface

< [Constructors](#) > < [Methods](#) >

```
public class GenMDSchemaController  
extends uk.ac.reload.editor.metadata.xml.MD_SchemaController
```

TO DO Schema Controller for modified(localised) IMS Metadata schema

Constructors

GenMDSchemaController

```
public GenMDSchemaController()  
    throws org.jdom.JDOMException,  
           java.io.IOException,  
           SchemaException
```

Default Constructor

Throws:

org.jdom.JDOMException -
java.io.IOException -
uk.ac.reload.moonunit.schema.SchemaException -

Methods

getRootElementName

```
public java.lang.String getRootElementName()
```

Returns:

The Root Element name

Overrides:

getRootElementName in class uk.ac.reload.moonunit.SchemaController

getSchemaFile

```
public java.io.File getSchemaFile()
```

Overrides:

getSchemaFile in class uk.ac.reload.moonunit.SchemaController

getVersion

```
public java.lang.String getVersion()
```

Overrides:

getVersion in class uk.ac.reload.moonunit.SchemaController

loadSchemaModel

```
public void loadSchemaModel(java.lang.String root)
    throws SchemaException,
           java.io.IOException
```

Load in the SchemaModel as determined by getSchemaFile() and getRootElementName(). If the SchemaModel has already been set and loaded, nothing happens.

Throws:

uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

setSchemaFile

```
public static void setSchemaFile(java.io.File file)
```

Parameters:

file -

Package uk.ac.reload.editor.genschema

Class Summary

[GenMetadata](#)

A generic class for metadata instances

[GenSchemaController](#)

Schema controller for local non ims schemas

[GenSchemaEditor](#)

Editor for editing non-ims local schema instances

[GenSchemaEditorHandler](#)

Class for creating/editing in a frame non ims schema instances (any schema instnce ?)

[GenSchemaEditorPanel](#)

Editor Panel for editing schema instances

[NewSchemaSelectionDialog](#)

Dialog screen for selecting schema for creating new instances

uk.ac.reload.editor.genschema

Class GenMetadata

```
java.lang.Object
|
|--uk.ac.reload.jdom.XMLDocument
|   |--uk.ac.reload.jdom.XMLActiveDocument
|       |--uk.ac.reload.moonunit.SchemaDocument
|           |--uk.ac.reload.editor.metadata.xml.Metadata
|               |--uk.ac.reload.editor.genschema.GenMetadata
```

< [Constructors](#) > < [Methods](#) >

```
public class GenMetadata
extends uk.ac.reload.editor.metadata.xml.Metadata
```

A generic class for metadata instances

Constructors

GenMetadata

```
public GenMetadata(java.io.File file)
    throws org.jdom.JDOMException,
           java.io.IOException,
           SchemaException
```

Constructor for a schema instance File that exists - will be Standalone

Throws:

org.jdom.JDOMException -
java.io.IOException -
uk.ac.reload.moonunit.schema.SchemaException -

GenMetadata

```
public GenMetadata(org.jdom.Document doc)
    throws org.jdom.JDOMException,
           java.io.IOException,
           SchemaException
```

Constructor for a schema instance that exists

Throws:

org.jdom.JDOMException -
java.io.IOException -
uk.ac.reload.moonunit.schema.SchemaException -

GenMetadata

```
public GenMetadata(GenSchemaController controller)
```

Constructor for blank MD

Methods

addChildren

```
public void addChildren(org.jdom.Element root,
                        SchemaElement schemeEl)
```

This is for appending child elements to the blank instance

Parameters:

root -
schemeEl -

addElementBySchema

```
public org.jdom.Element addElementBySchema(java.lang.Object source,  
                                             org.jdom.Element parentElement,  
                                             SchemaElement newSchemaElement,  
                                             boolean doSelect)
```

Over-ride this so we can intercept it to do stuff

Overrides:

addElementBySchema in class uk.ac.reload.editor.metadata.xml.Metadata

uk.ac.reload.editor.genschema

Class GenSchemaController

```
java.lang.Object  
|  
+--uk.ac.reload.moonunit.SchemaController  
|  
+--uk.ac.reload.editor.genschema.GenSchemaController
```

All Implemented Interfaces:

uk.ac.reload.editor.IIcons, uk.ac.reload.editor.gui.TreeIconInterface

< [Constructors](#) > < [Methods](#) >

```
public class GenSchemaController  
extends uk.ac.reload.moonunit.SchemaController  
implements uk.ac.reload.editor.IIcons, uk.ac.reload.editor.gui.TreeIconInterface
```

Schema controller for local non ims schemas

Constructors

GenSchemaController

```
public GenSchemaController(java.io.File file)  
throws SchemaException,  
                                             java.io.IOException
```

Parameters:

file -

Throws:

uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

GenSchemaController

```
public GenSchemaController(java.io.File file,  
                           java.lang.String root)  
    throws SchemaException,  
           java.io.IOException
```

Parameters:

file -
root -

Throws:

uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

Methods

getClosedIcon

```
public javax.swing.Icon getClosedIcon(java.lang.String name,  
                                       org.jdom.Namespace ns)
```

Get The Closed Icon

getDefaultValue

```
public java.lang.String getDefaultValue(SchemaNode schemaNode)
```

Overrides:

getDefaultValue in class uk.ac.reload.moonunit.SchemaController

getExtElements

```
public java.util.List getExtElements()
```

Returns:

Returns the extTypes.

getLeafIcon

```
public javax.swing.Icon getLeafIcon(java.lang.String name,  
                                       org.jdom.Namespace ns)
```

Get The Leaf Icon

getOpenIcon

```
public javax.swing.Icon getOpenIcon(java.lang.String name,  
                                       org.jdom.Namespace ns)
```

Get The Open Icon

getRootElementName

```
public java.lang.String getRootElementName()
```

Overrides:

getRootElementName in class uk.ac.reload.moonunit.SchemaController

getSchemaFile

```
public java.io.File getSchemaFile()
```

Overrides:

getSchemaFile in class uk.ac.reload.moonunit.SchemaController

getVersion

```
public java.lang.String getVersion()
```

Overrides:

getVersion in class uk.ac.reload.moonunit.SchemaController

loadSchemaModel

```
public void loadSchemaModel(java.lang.String root)  
    throws SchemaException,  
           java.io.IOException
```

Load in the SchemaModel as determined by getSchemaFile() and getRootElementName(). If the SchemaModel has already been set and loaded, nothing happens.

Throws:

uk.ac.reload.moonunit.schema.SchemaException -
java.io.IOException -

setExtElements

```
public void setExtElements(java.util.List extTypes)
```

Parameters:

extTypes - The extTypes to set.

uk.ac.reload.editor.genschema

Class GenSchemaEditor

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JInternalFrame
|               |
|               +-- uk.ac.reload.dweezil.gui.DweezilInternalFrame
|                   |
|                   +-- uk.ac.reload.editor.EditorInternalFrame
|                       |
|                       +-- uk.ac.reload.editor.genschema.GenSchemaEditor
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants,
uk.ac.reload.editor.ApplicationListener, uk.ac.reload.editor.Ilcons,
uk.ac.reload.jdom.XMLDocumentListener

< [Constructors](#) > < [Methods](#) >

```
public class GenSchemaEditor
extends uk.ac.reload.editor.EditorInternalFrame
implements uk.ac.reload.editor.Ilcons, uk.ac.reload.jdom.XMLDocumentListener
```

Editor for editing non-ims local schema instances

Constructors

GenSchemaEditor

```
public GenSchemaEditor()
```

Constructor

GenSchemaEditor

```
public GenSchemaEditor(GenMetadata md)
```

New Metadata Editor

Parameters:

md -

Methods

applicationClosing

```
public boolean applicationClosing()
```

We have been told by the Application that it is closing. Here we can save if need be.

Returns:

true if all is OK, false if not.

dispose

```
public void dispose()
```

Dispose of this Window and clean up

Overrides:

dispose in class javax.swing.JInternalFrame

documentSaved

```
public void documentSaved(uk.ac.reload.jdom.XMLDocument doc)
```

elementAdded

```
public void elementAdded(uk.ac.reload.jdom.XMLDocumentListenerEvent e)
```

elementChanged

```
public void elementChanged(uk.ac.reload.jdom.XMLDocumentListenerEvent e)
```

elementRemoved

```
public void elementRemoved(uk.ac.reload.jdom.XMLDocumentListenerEvent e)
```

show

```
public void show()
```

Over-ride this so we can set view stuff

Overrides:

show in class javax.swing.JInternalFrame

uk.ac.reload.editor.genschema

Class GenSchemaEditorHandler

```
java.lang.Object
|
+--uk.ac.reload.editor.genschema.GenSchemaEditorHandler
```

All Implemented Interfaces:

uk.ac.reload.editor.IEditorHandler, uk.ac.reload.editor.IIcons

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class GenSchemaEditorHandler
extends java.lang.Object
implements uk.ac.reload.editor.IEditorHandler, uk.ac.reload.editor.IIcons
```

Class for creating/editing in a frame non ims schema instances (any schema instnce ?)

Fields

SCHEMAROOTFOLDER

```
public static java.io.File SCHEMAROOTFOLDER
    Schema root Folder
```

SCHEMA_FOLDER

```
public static final java.io.File SCHEMA_FOLDER
```

Constructors

GenSchemaEditorHandler

```
public GenSchemaEditorHandler()
```

Methods

canCreateDocuments

```
public boolean canCreateDocuments()
```

canEditFile

```
public boolean canEditFile(java.io.File file)
```

editFile

```
public uk.ac.reload.editor.EditorInternalFrame editFile(java.io.File file)
```

getIcon

```
public javax.swing.Icon getIcon()
```

getName

```
public java.lang.String getName()
```

getSchemaControllerInstance

```
public uk.ac.reload.moonunit.SchemaController  
getSchemaControllerInstance(java.lang.String version)
```

getSupportedVersions

```
public java.lang.String[] getSupportedVersions()
```

newDocument

```
public uk.ac.reload.editor.EditorInternalFrame newDocument()
```

uk.ac.reload.editor.genschema

Class GenSchemaEditorPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- uk.ac.reload.editor.genschema.GenSchemaEditorPanel
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible

< [Constructors](#) > < [Methods](#) >

```
public class GenSchemaEditorPanel
extends javax.swing.JPanel
```

Editor Panel for editing schema instances

Constructors

GenSchemaEditorPanel

```
public GenSchemaEditorPanel(uk.ac.reload.editor.menu.Menu_Edit editMenu)
```

Constructor

Parameters:

editMenu -

Methods

destroy

```
public void destroy()
```

Dispose of this and clean up

getMetadata

```
public GenMetadata getMetadata()
```

Get the Metadata Document

Returns:

Metadata

getUndoManager

```
public uk.ac.reload.dweezil.menu.UndoMenuManager getUndoManager()
```

Returns:

the UndoManager

initView

```
public void initView()
```

Over-ride this so we can set view stuff

setDocument

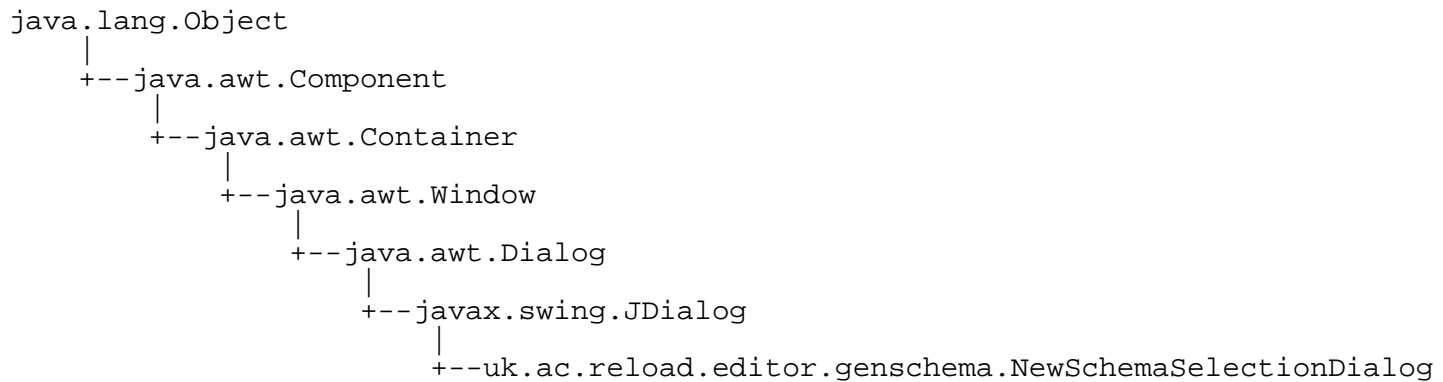
```
public void setDocument(GenMetadata metadata)
```

Set the Editor to a Metadata Document

Parameters:

metadata - The Metadata Document

Class NewSchemaSelectionDialog



All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public class NewSchemaSelectionDialog
extends javax.swing.JDialog
```

Dialog screen for selecting schema for creating new instances

Constructors

NewSchemaSelectionDialog

```
public NewSchemaSelectionDialog(java.io.File schemaDir)
```

Constructor

Methods

getPathChild

```
public org.jdom.Element getPathChild(java.lang.String childName)
```

Finds matching child element form the loaded jdom document

Parameters:

childName -

Returns:

jdom element

getRoot

```
public java.lang.String getRoot()
```

get the root element name of selected schema

Returns:

schema root name

getSchemaLstEl

```
public org.jdom.Element getSchemaLstEl()
```

Returns:

Returns the schemaLstEl.

setSchemaDir

```
public void setSchemaDir(java.io.File schemaDir)  
    throws java.io.FileNotFoundException
```

load the schema list document from the selected base directory

Parameters:

schemaDir -

Throws:

java.io.FileNotFoundException -

showDialog

```
public java.io.File showDialog()
```

Show the dialog

Returns:

The user response either OK_OPTION or CANCEL_OPTION

updateList

```
public void updateList()
```

update the list using loaded document

Package

uk.ac.reload.editor.genschema.tableview

Class Summary

[GenTablePanel](#)

Wrapper for Table panel to enable editing non ims schemas

uk.ac.reload.editor.genschema.tableview

Class GenTablePanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- uk.ac.reload.editor.metadata.editor.tableview.MD_TablePanel
|                   |
|                   +-- uk.ac.reload.editor.genschema.tableview.GenTablePanel
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible

< [Constructors](#) > < [Methods](#) >

```
public class GenTablePanel
extends uk.ac.reload.editor.metadata.editor.tableview.MD_TablePanel
```

Wrapper for Table panel to enable editing non ims schemas

Constructors

GenTablePanel

```
public GenTablePanel(uk.ac.reload.editor.menu.Menu_Edit editMenu)
```

Parameters:

editMenu -

Methods

setDocument

```
public void setDocument(GenMetadata metadata)
```

Set the view up to display the Metadata Document

Parameters:

metadata -

Package

uk.ac.reload.editor.metadata.editor.formPlus

Class Summary

[CVDocValidator](#)

Document validator for jdom document using schema

[DocValidator](#)

Document validator for jdom document using schema

[ElementComboBox](#)

A Combo Box widget to display elements.

[ElementField](#)

An Edit Field Form Text widget abstract class

[ElementTextField](#)

A Text Area widget.

[FieldPanel](#)

A panel to display leaf nodes - A row of label and associated text

[FormController](#)

Form Controller listen to xml document event and control actions This can hold an Element or an Attribute.

[FormPanel](#)

Panel containing all embedded panels for displaying form view- attribute editor, tip panel and validation button and panel for elements

[FormSubPanel](#)

Panel that is embedded in the main form panel.

[NewExtTypeSelectionDialog](#)

Dialog screen for selecting schema for creating new instances

[ValidationPanel](#)

Embedded panel for displaying schema validation results

[XSDBuiltinTypes](#)

uk.ac.reload.editor.metadata.editor.formPlus

Class CVDocValidator

```
java.lang.Object
|
|--uk.ac.reload.editor.metadata.editor.formPlus.CVDocValidator
```

< [Constructors](#) > < [Methods](#) >

```
public class CVDocValidator
extends java.lang.Object
```

Document validator for jdom document using schema

Constructors

CVDocValidator

```
public CVDocValidator(uk.ac.reload.editor.metadata.xml.Metadata metadata,
                      java.awt.Component comp,
                      FormController fc)
```

create an xml document validator

Parameters:

metadata - xml document to be validated
comp - - panel in which validation results are displayed

Methods

getErrorMsg

```
public java.lang.String getErrorMsg(org.jdom.Element valdnRoot)
```

Concatenate common validator error messages into one string

Parameters:

valdnRoot -

Returns:

error message string

getPathfromXPath

```
public java.lang.String getPathfromXPath(java.lang.String xpath)
```

converts real XPath string to a more user friendly string to display

Parameters:

xpath -

Returns:

string - friendly string of path to element

resetLbIClr

```
public void resetLbIClr()
```

Reset the colour of the lable component to old value

validate

```
public void validate()
```

validate the the document

uk.ac.reload.editor.metadata.editor.formPlus

Class DocValidator

```
java.lang.Object
```

```
|  
|--uk.ac.reload.editor.metadata.editor.formPlus.DocValidator
```

< [Constructors](#) > < [Methods](#) >

```
public class DocValidator  
extends java.lang.Object
```

Document validator for jdom document using schema

Constructors

DocValidator

```
public DocValidator(uk.ac.reload.editor.metadata.xml.Metadata metadata,  
                  java.awt.Component comp)
```

create an xml document validator

Parameters:

metadata - xml document to be validated

comp - - panel in which validation results are displayed

Methods

validate

```
public void validate()
```

validate the the document

uk.ac.reload.editor.metadata.editor.formPlus

Class ElementComboBox

```
java.lang.Object  
|  
+--uk.ac.reload.editor.gui.FormField  
|  
+--ElementField  
|  
+--uk.ac.reload.editor.metadata.editor.formPlus.ElementComboBox
```

All Implemented Interfaces:

java.awt.event.ActionListener, uk.ac.reload.jdom.XMLDocumentListener

< [Constructors](#) > < [Methods](#) >

```
public class ElementComboBox  
extends ElementField  
implements java.awt.event.ActionListener
```

A Combo Box widget to display elements. This can hold an Element or an Attribute.

Constructors

ElementComboBox

```
public ElementComboBox(uk.ac.reload.moonunit.SchemaDocument metadata,  
    SchemaElement schemaElement,  
    org.jdom.Element element,  
    uk.ac.reload.moonunit.vocab.VocabularyList rvList)
```

Parameters:

metadata -
schemaElement -
element -
rvList -

ElementComboBox

```
public ElementComboBox(uk.ac.reload.moonunit.SchemaDocument metadata,  
    SchemaElement schemaElement,  
    uk.ac.reload.moonunit.vocab.VocabularyList rvList)
```

Methods

actionPerformed

```
public void actionPerformed(java.awt.event.ActionEvent event)
```

cleanup

```
public void cleanup()
```

Overrides:

cleanup in class [uk.ac.reload.editor.gui.FormField](#)

destroy

```
public void destroy()
```

Remove all listners

Overrides:

[destroy](#) in class [ElementField](#)

getComponent

```
public java.awt.Component getComponent()
```

return the gui component

Overrides:

[getComponent](#) in class [ElementField](#)

getValue

```
public java.lang.String getValue()
```

Get the value of this Widget

Returns:

The value contained in the Widget

Overrides:

[getValue](#) in class [ElementField](#)

init

```
public void init(uk.ac.reload.moonunit.SchemaDocument metadata,  
                org.jdom.Element element,  
                uk.ac.reload.moonunit.vocab.VocabularyList rvList)
```

Parameters:

metadata -

element -

rvList -

setValue

```
public void setValue(java.lang.String value)
```

Set the value of the Widget

Parameters:

value - The value

Overrides:

[setValue](#) in class [ElementField](#)

uk.ac.reload.editor.metadata.editor.formPlus

Class ElementField

```
java.lang.Object
|
|--uk.ac.reload.editor.gui.FormField
|   |
|   |--uk.ac.reload.editor.metadata.editor.formPlus.ElementField
```

All Implemented Interfaces:

uk.ac.reload.jdom.XMLDocumentListener

Direct Known Subclasses:

[ElementComboBox](#), [ElementTextField](#)

< [Constructors](#) > < [Methods](#) >

```
public abstract class ElementField
extends uk.ac.reload.editor.gui.FormField
implements uk.ac.reload.jdom.XMLDocumentListener
```

An Edit Field Form Text widget abstract class

Constructors

ElementField

```
public ElementField(uk.ac.reload.moonunit.SchemaDocument schemaDocument,
                    org.jdom.Element element,
                    SchemaElement schemaElement)
```

Parameters:

schemaDocument -
element -
schemaElement -

ElementField

```
public ElementField(uk.ac.reload.moonunit.SchemaDocument schemaDocument,
                    SchemaElement schemaElement)
```

Parameters:

schemaDocument -
schemaElement -

Methods

destroy

```
public void destroy()
```

documentSaved

```
public void documentSaved(uk.ac.reload.jdom.XMLDocument doc)
```

elementAdded

```
public void elementAdded(uk.ac.reload.jdom.XMLDocumentListenerEvent event)
```

elementChanged

```
public void elementChanged(uk.ac.reload.jdom.XMLDocumentListenerEvent event)
```

elementRemoved

```
public void elementRemoved(uk.ac.reload.jdom.XMLDocumentListenerEvent event)
```

getComponent

```
public java.awt.Component getComponent()
```

Overrides:

getComponent in class uk.ac.reload.editor.gui.FormField

getValue

```
public java.lang.String getValue()
```

Overrides:

getValue in class uk.ac.reload.editor.gui.FormField

setValue

```
public void setValue(java.lang.String value)
```

Overrides:

setValue in class uk.ac.reload.editor.gui.FormField

uk.ac.reload.editor.metadata.editor.formPlus

Class ElementTextField

```
java.lang.Object
|
+--uk.ac.reload.editor.gui.FormField
|
+--ElementField
|
+--uk.ac.reload.editor.metadata.editor.formPlus.ElementTextField
```

All Implemented Interfaces:

javax.swing.event.DocumentListener, uk.ac.reload.jdom.XMLDocumentListener

< [Constructors](#) > < [Methods](#) >

```
public class ElementTextField
extends ElementField
implements javax.swing.event.DocumentListener
```

A Text Area widget.

Author:

Phillip Beauvoir

Version:

\$Id: ElementTextField.java,v 1.1 2004/10/12 10:59:14 phillipus Exp \$

Constructors

ElementTextField

```
public ElementTextField(uk.ac.reload.editor.metadata.xml.Metadata metadata,
SchemaElement schemaElement)
```

c'str

Parameters:

metadata -
schemaElement -

ElementTextField

```
public ElementTextField(uk.ac.reload.moonunit.SchemaDocument metadata,  
    org.jdom.Element element,  
    SchemaElement schemaElement)
```

c'str

Parameters:

metadata -
element -
schemaElement -

Methods

changedUpdate

```
public void changedUpdate(javax.swing.event.DocumentEvent e)
```

cleanup

```
public void cleanup()
```

Overrides:

cleanup in class [uk.ac.reload.editor.gui.FormField](#)

destroy

```
public void destroy()
```

Clean up

Overrides:

[destroy](#) in class [ElementField](#)

getComponent

```
public java.awt.Component getComponent()
```

Returns:

the Component that we're using

Overrides:

[getComponent](#) in class [ElementField](#)

getValue

```
public java.lang.String getValue()
```

Get the value of this Widget

Returns:

The value contained in the Widget

Overrides:

[getValue](#) in class [ElementField](#)

insertUpdate

```
public void insertUpdate(javax.swing.event.DocumentEvent e)
```

removeDuplicateWhitespace

```
public static java.lang.CharSequence  
removeDuplicateWhitespace(java.lang.CharSequence inputStr)
```

Returns a version of the input where all contiguous whitespace characters are replaced with a single space. Line terminators are treated like whitespace. This example is taken from Java developers Almanac

removeUpdate

```
public void removeUpdate(javax.swing.event.DocumentEvent e)
```

setValue

```
public void setValue(java.lang.String value)
```

Set the value of the Widget

Parameters:

value - The value

Overrides:

[setValue](#) in class [ElementField](#)

Class FieldPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- uk.ac.reload.editor.metadata.editor.formPlus.FieldPanel
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible

< [Constructors](#) > < [Methods](#) >

```
public class FieldPanel
extends javax.swing.JPanel
```

A panel to display leaf nodes - A row of label and associated text

Constructors

FieldPanel

```
public FieldPanel(javax.swing.JComponent lbl)
```

c'str with no text values

Parameters:

lbl -

FieldPanel

```
public FieldPanel(javax.swing.JComponent lbl,
                  javax.swing.JComponent txtFld)
```

c'str with a text and label value

Parameters:

lbl -
txtFld -

Methods

addFirstRow

```
public void addFirstRow(javax.swing.JComponent txt)
```

remove the first row in a label - text value array

Parameters:

txt -

addRow

```
public void addRow(javax.swing.JComponent lbl,  
                    javax.swing.JComponent txtFld)
```

Add a new label and text field in a row below the last row

Parameters:

lbl -
txtFld -

addRowAt

```
public void addRowAt(javax.swing.JComponent lbl,  
                      javax.swing.JComponent txt,  
                      int rowNo)
```

Add a new lable /text value pair at a specific line no

Parameters:

lbl -
txt -
rowNo -

deleteRow

```
public void deleteRow(javax.swing.JComponent comp)
```

Delete a row containing the component from this panel

Parameters:

comp -

getLabel

```
public javax.swing.JLabel getLabel()
```

getTableLayout

```
public info.clearthought.layout.TableLayout getTableLayout()
```

Returns:

Returns the layout.

moveFirstDown

```
public void moveFirstDown(javax.swing.JComponent lblNew,  
                           javax.swing.JComponent txtNew)
```

For moving rows of label/text pairs down depending on changes in other view

Parameters:

lblNew -
txtNew -

uk.ac.reload.editor.metadata.editor.formPlus

Class FormController

```
java.lang.Object  
|  
+--uk.ac.reload.editor.metadata.editor.formPlus.FormController
```

All Implemented Interfaces:

uk.ac.reload.jdom.XMLDocumentListener

< [Constructors](#) > < [Methods](#) >

```
public class FormController  
extends java.lang.Object  
implements uk.ac.reload.jdom.XMLDocumentListener
```

Form Controller listen to xml document event and control actions This can hold an Element or an Attribute.

Constructors

FormController

```
public FormController()
```

FormController

```
public FormController(java.io.File file,  
                      javax.swing.JPanel mainPanel)  
    throws org.jdom.JDOMException,  
           SchemaException,  
           java.io.IOException
```

Parameters:

file -

Throws:

org.jdom.JDOMException -

uk.ac.reload.moonunit.schema.SchemaException -

java.io.IOException -

Methods

addFormComponent

```
public void addFormComponent(int key,  
                             javax.swing.JComponent comp)
```

add components in the panel to hashmap

Parameters:

key -

comp -

destroy

```
public void destroy()
```

remove listeners and clear hashtable

documentSaved

```
public void documentSaved(uk.ac.reload.jdom.XMLDocument doc)
```

elementAdded

```
public void elementAdded(uk.ac.reload.jdom.XMLDocumentListenerEvent event)
```

handles element additions to the xml instances

Parameters:

event - XMLDocument events

elementChanged

```
public void elementChanged(uk.ac.reload.jdom.XMLDocumentListenerEvent event)
```

elementRemoved

```
public void elementRemoved(uk.ac.reload.jdom.XMLDocumentListenerEvent event)
```

Implements element removal from containing panel when elements are removed

Parameters:

event - XMLDocumentListenerEvent

getFormComponent

```
public javax.swing.JComponent getFormComponent(int key)
```

Select the component for an element from element hashkey

Parameters:

key -

Returns:

jcomponent

getMainPanel

```
public javax.swing.JPanel getMainPanel()
```

Returns:

Returns the mainPanel.

getMetadata

```
public uk.ac.reload.editor.metadata.xml.Metadata getMetadata()
```

get the metadata that is currently being displayed

Returns:

SchemaDocument

get_fields

```
public java.util.Vector get_fields()
```

Returns:

Returns the _fields.

indexofChild

```
public static int indexofChild(org.jdom.Element parent,  
                               org.jdom.Element child)
```

Return the index of a child element in the parent element

Parameters:

parent -
child -

Returns:

index

isMandatory

```
public boolean isMandatory(org.jdom.Element element)
```

check whether the element is mandatory(minoccurs=1)

Parameters:

element -

Returns:

true if mandatory

isValue

```
public static boolean isValue(SchemaElement schEl)
```

Returns:

whether this is a simple builtin xsd type that has a value

removeFormComponent

```
public void removeFormComponent(int key)
```

remove components from hashtable

Parameters:

key -

setMainPanel

```
public void setMainPanel(javax.swing.JPanel mainPanel)
```

Parameters:

mainPanel - The mainPanel to set.

setMetadata

```
public void setMetadata(uk.ac.reload.editor.metadata.xml.Metadata metadata,  
                        javax.swing.JPanel mainPanel)
```

set the metadata that is currently being displayed

Parameters:

metadata -

validateInstance

```
public void validateInstance(java.awt.Component comp)
```

Validate the current XML document instance using the schema use the currently displayed xml document in validation This is a temporary solution until opengroup common validator is available

Parameters:

comp - - parent panel calling this event

Class FormPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- uk.ac.reload.dweezil.gui.GradientPanel
|                   |
|                   +-- uk.ac.reload.editor.metadata.editor.formPlus.FormPanel
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable, javax.accessibility.Accessible

< [Constructors](#) > < [Methods](#) >

```
public class FormPanel
extends uk.ac.reload.dweezil.gui.GradientPanel
```

Panel containing all embedded panels for displaying form view- attribute editor, tip panel and validation button and panel for elements

Constructors

FormPanel

```
public FormPanel()
```

Methods

destroy

```
public void destroy()
```

Clean up

getAttrPanel

```
public uk.ac.reload.editor.gui.AttributeEditor getAttrPanel()
```

Returns:

Returns the Attribute Panel.

getController

```
public FormController getController()
```

Returns:

return the Formcontroller

getTipPanel

```
public uk.ac.reload.editor.gui.TipPanel getTipPanel()
```

Returns:

Returns the TipPanel.

getValPanel

```
public ValidationPanel getValPanel()
```

Returns:

Returns the Validation Panel.

setDocument

```
public void setDocument(uk.ac.reload.editor.metadata.xml.Metadata md)
```

set the document for the panel and add all inner panels;

Parameters:

md -

Class FormSubPanel

```
java.lang.Object
|
+-- java.awt.Component
    |
    +-- java.awt.Container
        |
        +-- javax.swing.JComponent
            |
            +-- javax.swing.JPanel
                |
                +-- uk.ac.reload.editor.metadata.editor.formPlus.FormSubPanel
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible

< [Constructors](#) > < [Methods](#) >

```
public class FormSubPanel
extends javax.swing.JPanel
```

Panel that is embedded in the main form panel. This is used for elements with more than one child element elements with langstring fields are added as label with text value in a row

Constructors

FormSubPanel

```
public FormSubPanel(org.jdom.Element root,
                    FormController controller)
```

A container panel to display elements that have many child elements

Parameters:

root -
controller -

Methods

addLangStringField

```
public void addLangStringField(org.jdom.Element child,  
                               int indx)
```

This is to be called from FormController for adding langstring fields when more than one langstring child elements are present per element

Parameters:

child -
indx -

addStringValueField

```
public void addStringValueField(org.jdom.Element child,  
                               int indx)
```

Add an element with String value

Parameters:

child -
indx -

addValueField

```
public void addValueField(org.jdom.Element child,  
                          int indx)
```

add a value field to the parent panel as a row

Parameters:

child -
indx -

addValueField

```
public void addValueField(org.jdom.Element child,  
                          SchemaElement schemaNode)
```

add a value field to the parent panel as a row

Parameters:

child -
schemaNode -

addValueField

```
public void addValueField(org.jdom.Element child,  
                          SchemaElement schemaNode,  
                          int indx)
```

appendStringFieldAt

```
public void appendStringFieldAt(org.jdom.Element langEl,  
                                FieldPanel parentPanel,  
                                int indx)
```

this is for adding additional row to a panel containing key/string value pairs mainly used for langstring elements with multiple langstring child elements to a parent

Parameters:

langEl -
parentPanel -
indx -

createLblComponent

```
public javax.swing.JLabel createLblComponent(org.jdom.Element child,  
                                              uk.ac.reload.jdom.XMLPath  
childPath)
```

Create a label component to display next to editable fields

Parameters:

child -
childPath -

Returns:

label component

createWidget

```
public ElementField createWidget(org.jdom.Element el)
```

Creates an widget to display in the form view for the element

Parameters:

el - jdom element of the xml document to be displayed

Returns:

Field widget to display in the form view

destroy

```
public void destroy()
```

getHider

```
public TableRowHiderButton getHider()
```

Returns:

Returns the hider.

getPanelLbl

```
public javax.swing.JLabel getPanelLbl()
```

Returns:

Returns the panelLbl.

getTableLayout

```
public info.clearthought.layout.TableLayout getTableLayout()
```

Returns:

Returns the layout.

setFormController

```
public void setFormController(FormController controller)
```

Parameters:

controller -

setLabel

```
public void setLabel(org.jdom.Element element)
```

set the label for this element sub panel and add listeners/hider button

Parameters:

element -

Class NewExtTypeSelectionDialog

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- uk.ac.reload.editor.metadata.editor.formPlus.NewExtTypeS
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public class NewExtTypeSelectionDialog
extends javax.swing.JDialog
```

Dialog screen for selecting schema for creating new instances

Constructors

NewExtTypeSelectionDialog

```
public NewExtTypeSelectionDialog(java.util.List elTypes)
```

Constructor

Methods

getSelectedTypeName

```
public java.lang.String getSelectedTypeName()
```

Returns:

Returns the selectedType.

showDialog

```
public org.eclipse.xsd.XSDElementDeclaration showDialog()
```

Show the dialog

Returns:

The user response either OK_OPTION or CANCEL_OPTION

uk.ac.reload.editor.metadata.editor.formPlus

Class ValidationPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- uk.ac.reload.dweezil.gui.GradientPanel
|                   |
|                   +-- uk.ac.reload.editor.metadata.editor.formPlus.ValidationPanel
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible

< [Constructors](#) > < [Methods](#) >

```
public class ValidationPanel
extends uk.ac.reload.dweezil.gui.GradientPanel
```

Embedded panel for displaying schema validation results

Constructors

ValidationPanel

```
public ValidationPanel()
```

Methods

clear

```
public void clear()
```

Clear the Settings

setText

```
public void setText(java.lang.String txt)
```

Update the text tip panel

uk.ac.reload.editor.metadata.editor.formPlus

Class XSDBuiltinTypes

```
java.lang.Object
```

```
|  
+--uk.ac.reload.editor.metadata.editor.formPlus.XSDBuiltinTypes
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class XSDBuiltinTypes  
extends java.lang.Object
```

Author:

Roy P Cherian TODO

Fields

XSD_BUILTINTYPE_NAME_STRING

```
public static final java.lang.String[] XSD_BUILTINTYPE_NAME_STRING
```

Constructors

XSDBuiltinTypes

```
public XSDBuiltinTypes()
```

Methods

isMemberOf

```
public static boolean isMemberOf(java.lang.String name)
```

Check whether an element type name is a value type

Parameters:

name - type name of the element

Returns:

true if type is one of built in type

Package

uk.ac.reload.editor.metadata.editor.formPlus.gui

Class Summary

[DateFieldWidget](#)

A Date TextField Widget This verifies the input format and should be in yyyy-MM-dd

[DateFieldWidget.FormattedTextFieldVerifier](#)

This is for checking input value for the text field

[DateTimeTypes](#)

[FixedSizeFilter](#)

Filter for restricting the max length of text in text components

[ScrollPane](#)

A container panel for form panel to improve mouse scrolling response

[TableRowHiderButton](#)

A Table layout row shrinking button

uk.ac.reload.editor.metadata.editor.formPlus.gui

Class DateFieldWidget

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.text.JTextComponent
|               |
|               +-- javax.swing.JTextField
|                   |
|                   +-- javax.swing.JFormattedTextField
|                       |
|                       +-- uk.ac.reload.editor.gui.widgets.FormattedTextFieldWi
|                           |
|                           +-- uk.ac.reload.editor.metadata.editor.formPlus.gui
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.Scrollable, javax.swing.SwingConstants,
uk.ac.reload.editor.gui.widgets.Widget

< [Constructors](#) > < [Methods](#) >

```
public class DateFieldWidget
    extends uk.ac.reload.editor.gui.widgets.FormattedTextFieldWidget
```

A Date TextField Widget This verifies the input format and should be in yyyy-MM-dd

Constructors

DateFieldWidget

```
public DateFieldWidget()
```

Default Constructor

Methods

insertTextValue

```
public void insertTextValue(java.lang.String text)
```

isSingleLine

```
public boolean isSingleLine()
```

setMaxLength

```
public void setMaxLength(int maxLength)
```

uk.ac.reload.editor.metadata.editor.formPlus.gui

Class

DateFieldWidget.FormattedTextFieldVerifier

```
java.lang.Object
|
+-- javax.swing.InputVerifier
|
+-- uk.ac.reload.editor.metadata.editor.formPlus.gui.DateFieldWidget.Formatte
```

< [Constructors](#) > < [Methods](#) >

```
public class DateFieldWidget.FormattedTextFieldVerifier
extends javax.swing.InputVerifier
```

This is for checking input value for the text field

Constructors

DateFieldWidget.FormattedTextFieldVerifier

```
public DateFieldWidget.FormattedTextFieldVerifier()
```

Methods

shouldYieldFocus

```
public boolean shouldYieldFocus(javax.swing.JComponent input)
```

Overrides:

shouldYieldFocus in class javax.swing.InputVerifier

verify

```
public boolean verify(javax.swing.JComponent input)
```

Overrides:

verify in class javax.swing.InputVerifier

uk.ac.reload.editor.metadata.editor.formPlus.gui

Class **DateTimeTypes**

```
java.lang.Object
```

```
├── uk.ac.reload.editor.metadata.editor.formPlus.gui.DateTimeTypes
```

< [Constructors](#) > < [Methods](#) >

```
public class DateTimeTypes
extends java.lang.Object
```

Author:

Roy P Cherian Set the date and time types for built-in xsd types

Constructors

DateTimeTypes

```
public DateTimeTypes()
```

Methods

setDateTimeType

```
public static void setDateTimeType(javax.swing.text.DateFormatter fmt,  
                                     java.lang.String type)
```

uk.ac.reload.editor.metadata.editor.formPlus.gui

Class FixedSizeFilter

```
java.lang.Object  
|  
+-- javax.swing.text.DocumentFilter  
|  
+-- uk.ac.reload.editor.metadata.editor.formPlus.gui.FixedSizeFilter
```

< [Constructors](#) > < [Methods](#) >

```
public class FixedSizeFilter  
extends javax.swing.text.DocumentFilter
```

Filter for restricting the max length of text in text components

Constructors

FixedSizeFilter

```
public FixedSizeFilter(int limit)
```

Methods

insertString

```
public void insertString(javax.swing.text.DocumentFilter.FilterBypass fb,
                        int offset,
                        java.lang.String str,
                        javax.swing.text.AttributeSet attr)
```

Overrides:

insertString in class javax.swing.text.DocumentFilter

replace

```
public void replace(javax.swing.text.DocumentFilter.FilterBypass fb,
                   int offset,
                   int length,
                   java.lang.String str,
                   javax.swing.text.AttributeSet attrs)
```

Overrides:

replace in class javax.swing.text.DocumentFilter

uk.ac.reload.editor.metadata.editor.formPlus.gui

Class ScrollPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- uk.ac.reload.editor.metadata.editor.formPlus.gui.ScrollPanel
```

All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.Scrollable

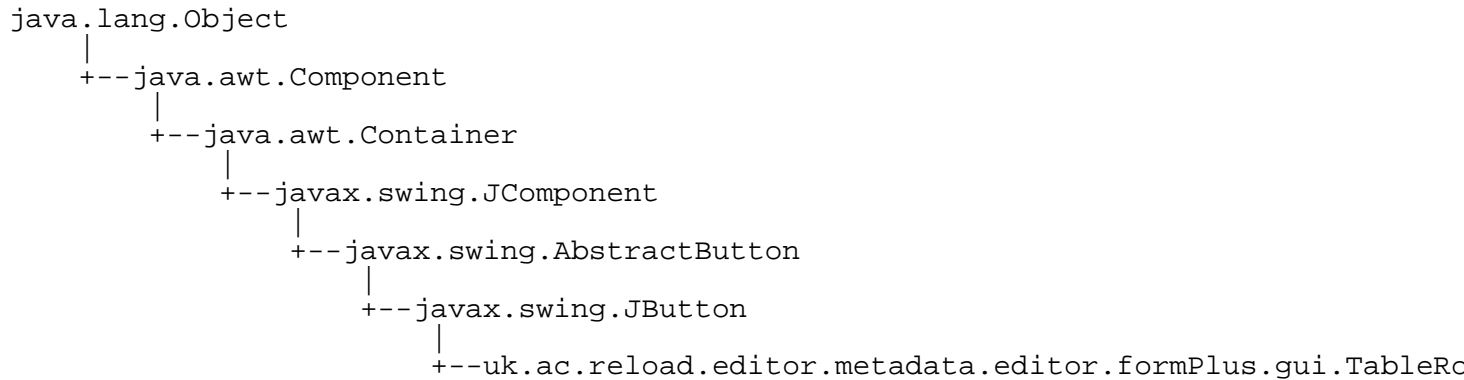
< [Constructors](#) > < [Methods](#) >

```
public class ScrollPanel
extends javax.swing.JPanel
implements javax.swing.Scrollable
```

A container panel for form panel to improve mouse scrolling response

Constructors

Class TableRowHiderButton



All Implemented Interfaces:

java.awt.ItemSelectable, java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable, javax.accessibility.Accessible, javax.swing.SwingConstants

< [Constructors](#) > < [Methods](#) >

```
public class TableRowHiderButton
extends javax.swing.JButton
```

A Table layout row shrinking button

Constructors

TableRowHiderButton

```
public TableRowHiderButton(javax.swing.JComponent component)
```

Constructor

Parameters:

component - the JComponent to hide or show

Methods

getMinimumSize

```
public java.awt.Dimension getMinimumSize()
```

Overrides:

getMinimumSize in class javax.swing.JComponent

getPreferredSize

```
public java.awt.Dimension getPreferredSize()
```

Overrides:

getPreferredSize in class javax.swing.JComponent

showComponent

```
public void showComponent(boolean show)
```

Show or hide the governed component

Parameters:

show - if true will hide the component

updateUI

```
public void updateUI()
```

Update the UI

Overrides:

updateUI in class javax.swing.JButton

Package uk.ac.reload.moonunit.schema

Class Summary

[SchemaAttribute](#)

An Attribute node that represents an Attribute of an Element in the Schema.

[SchemaElement](#)

An Element node that represents an Element in the Schema.

[SchemaException](#)

Exception for Schema handling

[SchemaGroup](#)

A node that represents a Group in the Schema.

[SchemaModel](#)

The SchemaModel Class - a Java representation of an XML Schema.

[SchemaModelGroup](#)

A node that represents a ModelGroup in the Schema.

[SchemaNode](#)

An abstract node that represents either an Element or an Attribute of the Schema.

[SchemaWildcard](#)

A node that represents a Wildcard in the Schema.

uk.ac.reload.moonunit.schema

Class SchemaAttribute

```
java.lang.Object
|
+--SchemaNode
|
+--uk.ac.reload.moonunit.schema.SchemaAttribute
```

< [Constructors](#) > < [Methods](#) >

```
public class SchemaAttribute
extends SchemaNode
```

An Attribute node that represents an Attribute of an Element in the Schema.

Author:

Phillip Beauvoir

Version:

\$Id: SchemaAttribute.java,v 1.7 2004/06/07 13:13:31 phillipus Exp \$

Constructors

SchemaAttribute

```
public SchemaAttribute(org.eclipse.xsd.XSDAttributeDeclaration attDecl)
```

Constructor.

Parameters:

attDecl - The wrapped xsd AttributeDecl

Methods

createAttribute

```
public org.jdom.Attribute createAttribute()
```

Create a JDOM Attribute based upon this SchemaAttribute

Returns:

A JDOM Attribute based upon this SchemaAttribute

getAtomicBaseTypeName

```
public java.lang.String getAtomicBaseTypeName()
```

Get the Atomic Base type name of this Attribute.

Returns:

The base type name of this Attribute or the type name if there is none

getAttributeDecl

```
public org.eclipse.xsd.XSDAttributeDeclaration getAttributeDecl()
```

Returns:

Returns the _AttributeDecl.

getBaseTypeName

```
public java.lang.String getBaseTypeName()
```

Get the base type name of this Attribute.

Returns:

The base type name of this Attribute

Overrides:

[getBaseTypeName](#) in class [SchemaNode](#)

getDefaultValue

```
public java.lang.String getDefaultValue()
```

Returns the default value of this Attribute. This method should only be called from a SchemaController

Returns:

the default value of this Attribute or null if no default was specified.

Overrides:

[getDefaultValue](#) in class [SchemaNode](#)

getFacetValue

```
public java.lang.String getFacetValue(java.lang.String facetName)
```

Returns:

a Facet Value or null

Overrides:

[getFacetValue](#) in class [SchemaNode](#)

getMaxLength

```
public java.lang.Long getMaxLength()
```

Get the max length of this Attribute.

Returns:

The max length of this Attribute or null

getMinLength

```
public java.lang.Long getMinLength()
```

Get the min length of this Attribute.

Returns:

The min length of this Attribute or null

getName

```
public java.lang.String getName()
```

Get the name of the Attribute

Returns:

The Attribute Schema name

Overrides:

[getName](#) in class [SchemaNode](#)

getNamespace

```
public org.jdom.Namespace getNamespace()
```

Returns:

The Namespace of this Attribute

Overrides:

[getNamespace](#) in class [SchemaNode](#)

getNamespacePrefix

```
public java.lang.String getNamespacePrefix()
```

Returns:

The Prefix of this Attribute, or "" if no prefix

Overrides:

[getNamespacePrefix](#) in class [SchemaNode](#)

getTypeName

```
public java.lang.String getTypeName()
```

Get the type name of this Attribute.

Returns:

The type name of this Attribute

Overrides:

[getTypeName](#) in class [SchemaNode](#)

getUse

```
public java.lang.String getUse()
```

Get the use of this attribute. This can be "optional", "required" or "prohibited"

Returns:

The use.

getVocabularyList

```
public uk.ac.reload.moonunit.vocab.VocabularyList getVocabularyList()
```

Get the inbuilt vocabulary list for this Attribute. If it's a Simple type of type BOOLEAN_TYPE we can return "true, false" as the list, otherwise we will look in the enumeration facets. This method should be called from a SchemaController so that it can check its Helper files for an additional over-riding VocabularyList before checking for one in the Schema.

Returns:

vocabulary list for this Attribute or null if there isn't one

Overrides:

[getVocabularyList](#) in class [SchemaNode](#)

getXMLPath

```
public uk.ac.reload.jdom.XMLPath getXMLPath()
```

Get the path to this Attribute. This will be the full path of all parent elements plus a "@" and this Attribute's name. For example: manifest.resources.resource@identifier

Returns:

The path for this Attribute

Overrides:

[getXMLPath](#) in class [SchemaNode](#)

uk.ac.reload.moonunit.schema

Class SchemaElement

```
java.lang.Object
|
+--SchemaNode
|
+--uk.ac.reload.moonunit.schema.SchemaElement
```

< [Constructors](#) > < [Methods](#) >

public class **SchemaElement**
extends [SchemaNode](#)

An Element node that represents an Element in the Schema. Essentially - this is a wrapper for an ElementDecl type

Author:

Phillip Beauvoir

Version:

\$Id: SchemaElement.java,v 1.11 2004/10/01 14:31:19 phillipus Exp \$

Constructors

SchemaElement

```
public SchemaElement(org.eclipse.xsd.XSDElementDeclaration elementDecl)
```

Constructor to wrap ElementDecl.

Parameters:

elementDecl - - wrapped xsd ElementDecl

Methods

getAtomicBaseTypeName

```
public java.lang.String getAtomicBaseTypeName()
```

Get the Atomic Base type name of this Element.

Returns:

The base type name of this Element or the type name if there is none

getBaseTypeName

```
public java.lang.String getBaseTypeName()
```

Get the Base type name of this Element.

Returns:

The base type name of this Element or the type name if there is none

Overrides:

[getBaseTypeName](#) in class [SchemaNode](#)

getChild

```
public SchemaElement getChild(java.lang.String childName)
```

Get a child schema element by name If the child has a different Namespace then it should be prefixed such as imscp:childName

Returns:

a child SchemaElement by name or null

getChild

```
public SchemaElement getChild(java.lang.String childName,  
                               org.jdom.Namespace ns)
```

Get a child schema element by name with given namespace

Returns:

a child SchemaElement by name or null

getChildAt

```
public SchemaElement getChildAt(int index)
```

Returns:

the child SchemaElement at index position or null if no children

getChildCount

```
public int getChildCount()
```

Get the child count of SchemaElement child objects.

Returns:

The Child Count.

getChildNames

```
public java.lang.String[] getChildNames()
```

Return a String array of child names

Returns:

array of strings

getChildren

```
public uk.ac.reload.moonunit.schema.SchemaElement[] getChildren()
```

Get the Children Elements of this Element.

Returns:

An Array of SchemaElement child objects. It will never be null

getChildren

```
public uk.ac.reload.moonunit.schema.SchemaElement[]  
getChildren(org.jdom.Namespace ns)
```

Get the Children Elements of this Element with a given Namespace.

Returns:

An Array of SchemaElement child objects. It will never be null

getDefaultValue

```
public java.lang.String getDefaultValue()
```

Returns the default value of this element definition if it is an ElementDecl This method should only be called from a SchemaController - look here first then then the SchemaController

Returns:

the default value of this element definition or null if no default was specified.

Overrides:

[getDefaultValue](#) in class [SchemaNode](#)

getElementDecl

```
public org.eclipse.xsd.XSDElementDeclaration getElementDecl()
```

Returns:

the ElementDecl

getFacetValue

```
public java.lang.String getFacetValue(java.lang.String facetName)
```

Returns:

a Facet Value or null

Overrides:

[getFacetValue](#) in class [SchemaNode](#)

getMaxOccurs

```
public int getMaxOccurs()
```

Get the maximum amount of times this element can occur - -1 means unbounded.

Returns:

The maximum amount of times this element can occur

getMinOccurs

```
public int getMinOccurs()
```

Returns:

the minimum amount of times this element can occur - 0 means optional

getName

```
public java.lang.String getName()
```

Get the name of the ElementDecl

Returns:

The Element name

Overrides:

[getName](#) in class [SchemaNode](#)

getNamespace

```
public org.jdom.Namespace getNamespace()
```

Returns:

The Namespace of this Schema Element

Overrides:

[getNamespace](#) in class [SchemaNode](#)

getNamespacePrefix

```
public java.lang.String getNamespacePrefix()
```

Returns:

The Prefix of this Element, or "" if no prefix

Overrides:

[getNamespacePrefix](#) in class [SchemaNode](#)

getOrderMaxOccurs

```
public int getOrderMaxOccurs()
```

Returns:

the Max Occurs of the parent Grouping (choice, sequence) or 0

getOrderMinOccurs

```
public int getOrderMinOccurs()
```

Returns:

the Max Occurs of the parent Grouping (choice, sequence) or 0

getOrderType

```
public java.lang.String getOrderType()
```

Returns:

the Order type that this is a member of. Can be "choice", "sequence", "all" or null

getQName

```
public java.lang.String getQName()
```

Get the name of the ElementDecl

Returns:

The Element name

getSchemaAttribute

```
public SchemaAttribute getSchemaAttribute(java.lang.String attName)
```

Returns:

a SchemaAttribute by its name. If the attribute has a different Namespace then it should be prefixed such as xml:base

getSchemaAttribute

```
public SchemaAttribute getSchemaAttribute(java.lang.String attName,  
                                           org.jdom.Namespace ns)
```

Returns:

a SchemaAttribute by its name and Namespace

getSchemaAttributeAtIndex

```
public SchemaAttribute getSchemaAttributeAtIndex(int index)
```

Return a SchemaAttribute by its index position

Parameters:

index - The index position of the Attribute

Returns:

The SchemaAttribute or null if there isn't one

getSchemaAttributes

```
public uk.ac.reload.moonunit.schema.SchemaAttribute[] getSchemaAttributes()
```

Returns:

an array of SchemaAttribute objects or null if there aren't any

getSchemaElements

```
public uk.ac.reload.moonunit.schema.SchemaElement[] getSchemaElements()
```

Returns:

An array of SchemaElement objects representing the full path for example manifest/resources/resource The root SchemaElement will be array item zero

getTypeName

```
public java.lang.String getTypeName()
```

Get the type name of this Element.

Returns:

The type name of this Element

Overrides:

[getTypeName](#) in class [SchemaNode](#)

getVocabularyList

```
public uk.ac.reload.moonunit.vocab.VocabularyList getVocabularyList()
```

Get the inbuilt vocabulary list for this Element. If it's a Simple type of type BOOLEAN_TYPE we can return "true, false" as the list, otherwise we will look in the enumeration facets. This method should be called from a SchemaController so that it can check its Helper files for an additional over-riding VocabularyList before checking for one in the Schema.

Returns:

vocabulary list for this Element or null if there isn't one

Overrides:

[getVocabularyList](#) in class [SchemaNode](#)

getXMLPath

```
public uk.ac.reload.jdom.XMLPath getXMLPath()
```

Get the path to this Element. This will be the full path of all parent elements plus this Element's name. For example: manifest/resources/resource This XMLPath is allocated dynamically, otherwise it doesn't work!

Returns:

The path for this Element

Overrides:

[getXMLPath](#) in class [SchemaNode](#)

getXsdMGRRef

```
public org.eclipse.xsd.XSDModelGroup getXsdMGRRef()
```

Returns:

Returns the groupRef.

hasAncestor

```
public boolean hasAncestor(SchemaElement schemaElement)
```

Returns:

true if schemaElement has an ancestor of the same name and Namespace

hasChild

```
public boolean hasChild(java.lang.String childName)
```

Return whether this SchemaElement has a child Element by name If the child has a different Namespace then it should be prefixed such as imscp:childName

Parameters:

childName - The name of the Child Element's name

Returns:

True if it has

hasChildren

```
public boolean hasChildren()
```

Return whether this Element has Child Elements.

Returns:

True if this Element has Children, or false if not

hasSchemaAttribute

```
public boolean hasSchemaAttribute(java.lang.String attName)
```

Return whether this Element has a SchemaAttribute by name using the Default Namespace.NO_NAMESPACE

Parameters:

attName -

Returns:

hasSchemaAttribute

```
public boolean hasSchemaAttribute(java.lang.String attName,  
org.jdom.Namespace ns)
```

Return whether this Element has a SchemaAttribute by Name and Namespace

Parameters:

attName -

ns - Namespace

Returns:

hasSchemaAttributes

```
public boolean hasSchemaAttributes()
```

Return whether this Element has SchemaAttributes

Returns:

True or False

indexOfChild

```
public int indexOfChild(java.lang.String childName,  
org.jdom.Namespace ns)
```

Return the index of a child by name and Namespace

Parameters:

childName -

ns -

Returns:

The index of the child or -1 if not found

indexofChild

```
public int indexofChild(SchemaElement child)
```

Returns:

The index of the child or -1 if not found

indexofSchemaAttribute

```
public int indexofSchemaAttribute(java.lang.String attName)
```

Return the index of a SchemaAttribute by name using the Default Namespace.NO_NAMESPACE

Parameters:

attName -

Returns:

The index of the Attribute or -1 if not found

indexofSchemaAttribute

```
public int indexofSchemaAttribute(java.lang.String attName,  
                                org.jdom.Namespace ns)
```

Return the index of a SchemaAttribute by name and Namespace

Parameters:

attName -

ns -

Returns:

The index of the Attribute or -1 if not found

indexofSchemaAttribute

```
public int indexofSchemaAttribute(SchemaAttribute att)
```

Return the index of a SchemaAttribute

Returns:

The index of the Attribute or -1 if not found

isChoiceElement

```
public boolean isChoiceElement()
```

Returns:

true of this element is part of a "choice" grouping

isComplexType

```
public boolean isComplexType()
```

Return whether this Element is made up of other Elements.

Returns:

True if this Element is a Complex Type, or false if not

isRoot

```
public boolean isRoot()
```

Return whether we are the Root Element, i.e our parent is null

Returns:

isSequenceElement

```
public boolean isSequenceElement()
```

Returns:

true of this element is part of a "sequence" grouping

isStringType

```
public boolean isStringType()
```

Returns:

whether this is a String type

isValue

```
public boolean isValue()
```

Returns:

whether this can hold an actual text/number value rather than just being a container for sub-elements

rebuildChildren

```
public void rebuildChildren()
```

Rebuild children after adding an extension type to this element

setMinMaxOccurs

```
public void setMinMaxOccurs(org.eclipse.xsd.XSDModelGroup mg,  
                             org.eclipse.xsd.XSDParticle partcl)
```

This is for setting the maxoccurs for the schema element

Parameters:

mg - model group to which the particle is part of
partcl - xsdparticle containing the element

setSchemaModel

```
public SchemaElement setSchemaModel(SchemaModel schemaModel)
```

Set the parent owning SchemaModel

Parameters:

schemaModel - The parent owning SchemaModel

Returns:

This Element

setXsdMGRef

```
public void setXsdMGRef(org.eclipse.xsd.XSDModelGroup groupRef)
```

Parameters:

groupRef - The groupRef to set.

toString

```
public java.lang.String toString()
```

A String representation of this Element.

Returns:

the name of the Element

Overrides:

toString in class java.lang.Object

uk.ac.reload.moonunit.schema

Class SchemaException

```
java.lang.Object
|
+-- java.lang.Throwable
|
+-- java.lang.Exception
|
+-- uk.ac.reload.moonunit.schema.SchemaException
```

All Implemented Interfaces:

java.io.Serializable

< [Constructors](#) >

```
public class SchemaException
extends java.lang.Exception
```

Exception for Schema handling

Author:

Phillip Beauvoir

Version:

\$Id: SchemaException.java,v 1.1 2004/07/02 12:16:21 phillipus Exp \$

Constructors

SchemaException

```
public SchemaException()
```

Constructs a SchemaException with null as its error detail message.

SchemaException

```
public SchemaException(java.lang.String s)
```

Constructs a `SchemaException` with the specified detail message. The error message string `s` can later be retrieved by the `{@link java.lang.Throwable#getMessage}` method of class `java.lang.Throwable`.

Parameters:

`s` - the detail message.

uk.ac.reload.moonunit.schema

Class SchemaGroup

```
java.lang.Object
|
+--uk.ac.reload.moonunit.schema.SchemaGroup
```

< [Constructors](#) > < [Methods](#) >

```
public class SchemaGroup
extends java.lang.Object
```

A node that represents a Group in the Schema.

Author:

Phillip Beauvoir

Version:

\$Id: SchemaGroup.java,v 1.2 2004/05/03 16:25:22 phillipus Exp \$

Constructors

SchemaGroup

```
public SchemaGroup(org.eclipse.xsd.XSDModelGroup group)
```

Constructor

Methods

getName

```
public java.lang.String getName()
```

Returns:

the name of the Group

uk.ac.reload.moonunit.schema

Class SchemaModel

```
java.lang.Object
|
+--uk.ac.reload.moonunit.schema.SchemaModel
```

< [Constructors](#) > < [Methods](#) >

```
public class SchemaModel
extends java.lang.Object
```

The SchemaModel Class - a Java representation of an XML Schema. Together with certain XML Schema helper files an XML Schema is loaded from file, parsed and constructed in memory as a hierarchical linked list of SchemaNode objects - SchemaElement and SchemaAttribute.

Author:

Phillip Beauvoir

Version:

\$Id: SchemaModel.java,v 1.9 2004/10/02 17:41:39 phillipus Exp \$

Constructors

SchemaModel

```
public SchemaModel(java.io.File schemaFile,
                   java.lang.String rootName)
    throws java.io.IOException,
           SchemaException
```

Constructor that automatically loads in the Schema from file

Parameters:

schemaFile - The XML Schema File to read
rootName - The name of the root element in the Schema

Throws:

java.io.IOException -
uk.ac.reload.moonunit.schema.SchemaException -

Methods

addImportedSchema

```
public void addImportedSchema(SchemaModel subSchemaModel,  
                             java.lang.String nsPrefix)  
    throws SchemaException
```

Add a sub-Schema and its Namespace and prefix to this one.

Parameters:

subSchemaModel - The sub-SchemaModel to attach
nsPrefix - The sub-Schema's namespace prefix

Throws:

uk.ac.reload.moonunit.schema.SchemaException -

attachExtSchemaElement

```
public void attachExtSchemaElement(org.eclipse.xsd.XSDElementDeclaration  
parent,  
                                   org.eclipse.xsd.XSDElementDeclaration  
child)
```

attachSchemaElement

```
public void attachSchemaElement(SchemaModel subSchemaModel,  
                                java.lang.String complexTypeName,  
                                java.lang.String elementName)  
    throws SchemaException
```

Attach an element declaration from a sub-Schema to this one at a given point in this Schema. This assumes that the sub-Schema has already been attached by calling addImportedSchema()

Parameters:

subSchemaModel - The sub-SchemaModel to attach
complexTypeName - The Name of this Schema's ComplexType to attach the child to
elementName - The name of the element in the attached Schema to add

Throws:

uk.ac.reload.moonunit.schema.SchemaException -

getElementDeclTbl

```
public java.util.Hashtable getElementDeclTbl()
```

Returns:

Returns the elementDeclrnList.

getNS2PrefixMap

```
public java.util.Hashtable getNS2PrefixMap()
```

Returns:

Returns the nstoprefixMap.

getNSMap

```
public java.util.Map getNSMap()
```

Returns:

Returns the nsMap.

getNamespaceURI

```
public java.lang.String getNamespaceURI(java.lang.String prefix)
```

Returns the namespace URI associated with the given prefix.

Parameters:

prefix - The Namespace prefix to get the URI for.

Returns:

the namespace associated with the given prefix, or null if no associated namespace exists.

getRootElement

```
public SchemaElement getRootElement()
```

Get the root element

Returns:

The root SchemaElement

getRootElementName

```
public java.lang.String getRootElementName()
```

Get the name of the Root Element in this Schema

Returns:

The Root Element Name

getSchema

```
public org.eclipse.xsd.XSDSchema getSchema()
```

Get the raw xsd Schema

Returns:

The xsd Schema

getSchemaFile

```
public java.io.File getSchemaFile()
```

Returns:

Returns the schema File

getSchemaLocation

```
public java.lang.String getSchemaLocation(java.lang.String namespaceURI)
```

Returns the full absolute path schemaLocation for a schema given its Namespace URI This is an absolute file path depending on the local machine on which this is run e.g -
file:/D:/projekts/reload/cvs/junit-tests/./editor/schema/model/imsmd_121/imsmd_rootv1p2p1.xsd

Parameters:

namespaceURI - Namespace URI for the schema in question

Returns:

the schemaLocation for a given Namespace URI

getSchemaModel

```
public static SchemaModel getSchemaModel(java.lang.String version,  
                                             java.io.File fileSchema,  
                                             java.lang.String rootName)  
                                             throws
```

```
java.io.IOException,
```

```
                                             SchemaException
```

Factory method for getting a static re-usable SchemaModel

Parameters:

version - The SchemaController unique version, used as a hash key
fileSchema - The file of the Schema XSD to get
rootName - We need to know the root name element.

Returns:

The SchemaModel or null if not found

Throws:

java.io.IOException -
uk.ac.reload.moonunit.schema.SchemaException -

getSchemaName

```
public java.lang.String getSchemaName()
```

Returns the __short__ schemaLocation for this schema

Returns:

the __short__ schemaLocation for this schema

getSchemaName

```
public java.lang.String getSchemaName(java.lang.String namespaceURI)
```

Returns the __short__ schemaLocation for this schema given its Namespace URI

Parameters:

namespaceURI - Namespace URI for the schema in question

Returns:

the __short__ schemaLocation for a schema given its Namespace URI

getSchemaNamespaceURI

```
public java.lang.String getSchemaNamespaceURI()
```

Returns the namespace URI of the XML Schema Note: This is not the same as targetNamespace. This is the namespace of "XML Schema" itself at time of writing this is usually - <http://www.w3.org/2001/XMLSchema> but can be the old one - <http://www.w3.org/2000/10/XMLSchema>

Returns:

the namespace of the XML Schema

getSchemaTbl

```
public java.util.Hashtable getSchemaTbl()
```

Returns:

Returns the schemas/namespace map.

getTargetNamespaceURI

```
public java.lang.String getTargetNamespaceURI()
```

Returns the target namespace URI for this Schema, or null if no namespace has been defined.

Returns:

the target namespace for this Schema, or null if no namespace has been defined

getVersion

```
public java.lang.String getVersion()
```

Returns the version information of the XML Schema definition represented by this Schema instance.

Returns:

the version information of the XML Schema definition, or null if no version information exists.

setRootElementName

```
public void setRootElementName(java.lang.String rootName)
```

Set the Schema root name

Parameters:

rootName -

setSchemaFile

```
public void setSchemaFile(java.io.File file)
```

Set the Schema File to load

Parameters:

file -

updateElements

```
public void updateElements(org.eclipse.xsd.XSDSchema schema)
```

This is for amending the el Declrn/attr declrn to reflect namespace prefix

Parameters:

schema -

uk.ac.reload.moonunit.schema

Class SchemaModelGroup

```
java.lang.Object  
|  
+--uk.ac.reload.moonunit.schema.SchemaModelGroup
```

< [Constructors](#) > < [Methods](#) >

```
public class SchemaModelGroup  
extends java.lang.Object
```

A node that represents a ModelGroup in the Schema.

Author:

Phillip Beauvoir

Version:

\$Id: SchemaModelGroup.java,v 1.2 2004/05/03 16:25:22 phillipus Exp \$

Constructors

SchemaModelGroup

```
public SchemaModelGroup(org.eclipse.xsd.XSDModelGroup modelGroup)
```

Methods

getName

```
public java.lang.String getName()
```

Get the name of the ModelGroup

Returns:

The name

uk.ac.reload.moonunit.schema

Class SchemaNode

```
java.lang.Object
|
+--uk.ac.reload.moonunit.schema.SchemaNode
```

Direct Known Subclasses:

[SchemaAttribute](#), [SchemaElement](#)

< [Constructors](#) > < [Methods](#) >

```
public abstract class SchemaNode
extends java.lang.Object
```

An abstract node that represents either an Element or an Attribute of the Schema. These are hierarchical and contained by a SchemaModel class.

Author:

Phillip Beauvoir

Version:

\$Id: SchemaNode.java,v 1.4 2004/06/07 13:13:31 phillipus Exp \$

Constructors

SchemaNode

```
public SchemaNode()
```

Default Constructor

Methods

getBaseTypeName

```
public abstract java.lang.String getBaseTypeName()
```

Returns:

The base type name of this node - implementations should provide this

getDefaultValue

```
public abstract java.lang.String getDefaultValue()
```

Returns:

the default value of this node or null if no default was specified.

getFacetValue

```
public abstract java.lang.String getFacetValue(java.lang.String facetName)
```

Returns:

a Facet Value or null

getName

```
public abstract java.lang.String getName()
```

Returns:

the name of this node - implementations should provide this

getNamespace

```
public abstract org.jdom.Namespace getNamespace()
```

Returns:

The Namespace of this Attribute

getNamespacePrefix

```
public abstract java.lang.String getNamespacePrefix()
```

Returns:

The Prefix of this Node, or "" if no prefix

getParent

```
public SchemaNode getParent()
```

Returns:

The parent node or null if there isn't one or if the parent is the topmost SchemaModel

getSchemaModel

```
public SchemaModel getSchemaModel()
```

Returns:

The owning SchemaModel that this node is a member of or null if there isn't one.

getTypeName

```
public abstract java.lang.String getTypeName()
```

Returns:

the type name of this node - implementations should provide this

getVocabularyList

```
public abstract uk.ac.reload.moonunit.vocab.VocabularyList getVocabularyList()
```

Returns:

the vocabulary list for this node - implementations should provide this

getXMLPath

```
public abstract uk.ac.reload.jdom.XMLPath getXMLPath()
```

Returns:

the path to this node - implementations should provide this

isExternalNamespace

```
public boolean isExternalNamespace()
```

Returns:

whether this belongs to another Namespace

setParent

```
public SchemaNode setParent(java.lang.Object parent)
```

Set the parent of this node.

Parameters:

parent - The parent node - Either a SchemaElement or the topmost SchemaModel

Returns:

This node

uk.ac.reload.moonunit.schema

Class SchemaWildcard

```
java.lang.Object  
|  
+--uk.ac.reload.moonunit.schema.SchemaWildcard
```

< [Constructors](#) >

```
public class SchemaWildcard  
extends java.lang.Object
```

A node that represents a Wildcard in the Schema.

Author:

Phillip Beauvoir

Version:

\$Id: SchemaWildcard.java,v 1.2 2004/05/03 16:23:31 phillipus Exp \$

Constructors

SchemaWildcard

```
public SchemaWildcard(org.eclipse.xsd.XSDWildcard wildcard)
```

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